Adarsh Alex

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OBJECTIVE

Seeking to leverage my experience and skills in Software Engineering to develop big data analytics and scalable applications.

EDUCATION

Wright State University, Dayton, Ohio, USA

Master of Science (M.S.) in Computer Science — Aug 2013 – May 2016 (Expected)

- Research areas: Exploiting knowledge encoded in Knowledge Graphs to enhance Text Mining, Natural Language Processing and Appplied Machine Learning
- Thesis: Detecting and Classifying Implicit Entity Mentions in Tweets
- Advisor: Dr. Amit P. Sheth
- GPA: 3.5/4.00

Mumbai University, Mumbai, Maharashtra, India

Bachelor of Engineering (B.E.) in Computer Engineering — Aug 2009 – May 2013

SKILLS

- **Programming Languages**: Java, Python, C, C++.
- **Databases**: MySQL, MongoDb, Neo4j.
- **Big Data Technologies**: Apache Hadoop(Mapreduce), Apache Storm.
- **Semantic Technologies**: RDF, SPARQL, OWL.
- **Web Technologies**: HTML, CSS, Javascript.
- **Tools and Software**: NLTK, Stanford CoreNLP, Gensim, OpenNLP, Weka, word2vec, git, svn.
- **Operating Systems**: Linux, Windows, Mac.

EXPERIENCE

Kno.e.sis Center, Wright State University

Graduate Research Assistant, Computer Science Department — Aug 2014 – Current

- Implicit Entity Recognition: Developed a framework for identifying tweets with Implicit Entity Mentions in unstructured text(Tweets and EMR documents) using Java and Weka.
  Designed and developed a system to link Implicit Entity Mentions to Wikipedia articles using factual knowledge extracted from Dbpedia and contextual knowledge extracted from Tweets.

- Active Tweet Filtering: Implemented an analysis pipeline engine for streaming data (Tweets) using Twitter Streaming API, Apache Storm and Mongo DB.
  Also developed a framework for real time noise filtering and feedback learning using Apache Storm and Weka.

- eDrugTrends: eDrugTrends is an inter-disciplinary project developed to monitor cannabis and synthetic cannabinoid use.
  My Work: Developed and extended an ontology to capture all the relationships between cannabinoids and synthetic cannabinoids using Protege.

ezDI, LLC, Ahmedabad, Gujarat, India

Research Intern — Apr 2014 – Aug 2014

- Developed an approach for automatic knowledge acquisition from Electronic Medical Record's using Java, Virtuoso and Neo4j to enhance knowledge graph by leveraging domain knowledge and applying semantic techniques.

Wright State University, Dayton Ohio, USA

Graduate Student — Aug 2013 – May 2016

- Multi-threaded broadcasting service: Implemented a broadcasting service using multi-threading in Java.
- Distributed K-Means: Implemented a Distributed K-Means algorithm using the mapreduce paradigm.

PUBLICATIONS

- Adarsh Alex, Sujan Perera, Amit Sheth "**Detecting and Classifying Implicit Entity Mentions in Tweets**" *Technical Report* [Work in Progress].

- Sujan Perera, Pablo N. Mendes, Amit P. Sheth, Krishnaprasad Thirunarayan, Adarsh Alex, Christopher Heid, Greg Mott "**Implicit Entity Recognition in Clinical Documents**," *In proceedings of The Fourth Joint Conference on Lexical and Computational Semantics (*SEM)*, Jun 2015.

- Sujan Perera, Pablo N. Mendes, Adarsh Alex, Amit P. Sheth, Krishnaprasad Thirunarayan "**Implicit Entity Linking in Tweets**," *In Extended Semantic Web Conference (ESWC)*, May 2016.